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Seventh in a series of space utilization studies, this report deals with the utilization of permanent instructional space for the fall of 1959. Subjects covered: Total instructional space; total room periods scheduled; utilization of instructional space by days, hours, buildings, and size of room; class size in relation to room capacity; use of other or special types of instructional space; former instructional space now assigned to other uses; and enrollment for courses in which no regularly scheduled class meetings are held.

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A STUDY OF UTILIZATION OF PERMANENT INSTRUCTIONAL SPACE

in the

FLORIDA STATE UNIVERSITY

Fall Semester, 1959

U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Office of Education

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Office of
INSTITUTIONAL RESEARCH AND SERVICE
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FINDINGS IN BRIEF

1. In the entire University the number of instructional rooms in permanent buildings in the fall of 1959 totaled 224; the number of instructional rooms in temporary buildings totaled five. The net gain in the number of instructional rooms in permanent buildings since the fall of 1958 was three.

2. Nearly 96 per cent of all room-periods used are scheduled between 8:00 A.M. and 5:00 P.M., Monday through Friday.

3. Room-period use is 49 per cent and student-station-period use is 32 per cent for all types of instructional space combined.

4. General classrooms and teaching auditoriums are used more than teaching laboratories and seminar rooms.

5. Instructional rooms are used most on Mondays and Wednesdays. They are used very little on Saturdays.

6. Instructional rooms are used most frequently between the hours of 9:00 A.M. and 12:00 Noon. Also the 2:00 P.M. hour was a popular one.

7. The Psychology Building has the highest percentage of room-period use (75%); the Conradi Building and the Graduate School Building have the highest percentage of student-station-period use (44%).

8. The Geology Building has the lowest percentage of room-period use (17%); the Home Economics Building has the lowest percentage of student-station-period use (14%).

A STUDY OF UTILIZATION OF PERMANENT INSTRUCTIONAL SPACE IN THE FLORIDA STATE UNIVERSITY: FALL SEMESTER, 1959

Prepared in the
Office of Institutional Research and Service
Florida State University
February, 1960

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INTRODUCTION TO STUDY[1]

This is the seventh in a series of studies of problems of permanent instructional space in the Florida State University made by the Office of Institutional Research and Service. During the academic year 1953-1954 OIRS supplied to the Council for the Study of Higher Education in Florida data concerning space utilization in the University[2] In the spring of 1955 a catalog was made of the University's academic space.[3] Since then OIRS has made detailed studies of space utilization in the University each fall semester.[4,5,6,7] The study here reported concerns the utilization of permanent instructional space for the fall of 1959.[8,9]

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[1]Prepared in the Office of Institutional Research and Service, Florida State University. OIRS is grateful to the Office of the Board of Control, the Office of the Resident Engineer, and the Office of the Registrar for assistance with the study.

[2]These data have been summarized, tabulated, and discussed in Volume 3 of the CSHEF report entitled Facts and Figures on Florida's Higher Education at Mid-Century (p. 54) and in Volume 4 of the CSHEF report entitled The Government, Management, and Finance of Higher Education in Florida (pp. 161-169).

[3]Academic Space in Permanent Buildings. Tallahassee, Florida: Office of Educational Research and Service, Florida State University, 1955. (NOTE: These data are now in the process of being brought up to date.)

[4]See the OIRS report entitled A Study of Utilization of Permanent Instructional Space in the Florida State University: Fall Semester, 1955.

[5]See the OIRS report entitled A Study of Utilization of Permanent Instructional Space in the Florida State University: Fall Semester, 1956.

[6]See the OIRS report entitled A Study of Utilization of Permanent Instructional Space in the Florida State University: Fall Semester, 1957.

[7]See the OIRS report entitled A Study of Utilization of Permanent Instructional Space in the Florida State University: Fall Semester, 1958.

[8]It should be noted that this study is concerned only with use of instructional space. Office space is not considered, nor is there any indication concerning adequacy or appropriateness (e.g., ventilation, lighting, heating, esthetic appearance, and the like) of room facilities.

[9]Data concerning the utilization of instructional space in temporary buildings are reported in Appendix D.

In making this study the methods employed were in keeping with the program adopted by the Board of Control for Florida's institutions of higher education for an analysis of the utilization of instructional space among the public universities of the state. The procedures for collecting and processing data were essentially the same as for the 1957 and 1958 studies which varied slightly from the 1955 and 1956 studies.[1,2] The reporting form has been changed appropriately to conform to that requested by the Board of Control. The last two reports therefore show the analyses in more detail than did earlier reports. The principal items of additional information offered are:

1. Analyses by buildings of utilization of rooms and student stations for each type of instructional space.
2. Analyses by size of room of utilization of rooms and student stations for each type of instructional space.
3. Analyses of the relationships of class size to the size of the room in which the class meets for each type of instructional space.

THE FINDINGS

Total Instructional Space. Table 1 shows the total instructional space (i.e., space which is available for or regularly used for class activities) in each of the permanent buildings. The amount of instructional space is expressed in terms of (1) the number of instructional rooms--general classrooms, seminar rooms, teaching laboratories, and teaching auditoriums; (2) the number of student-stations (accommodations for students engaging in class activities) in instructional rooms; and (3) the number of square feet of floor space in instructional rooms.

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[1]Same reference as footnote 6 on page 1: p. 2. also see reference to footnote 7 on page 1: p. 2.

[2]Same reference as footnote 4 on page 1: pp. 2-3.

TABLE 1

I N S T R U C T I O N A L S P A C E

Rooms, Student Stations, and Floor Area
By Building and by Type of Space
Fall, 1959

Number and Name of Building	General Classrooms			Seminar Rooms			Teaching Laboratories			Teaching Auditoriums		
	No. Rooms	No. Stu. Stations	Sq. Ft. Floor Area	No. Rooms	No. Stu. Stations	Sq. Ft. Floor Area	No. Rooms	No. Stu. Stations	Sq. Ft. Floor Area	No. Rooms	No. Stu. Stations	Sq. Ft. Floor Area
11 "A"	10	485	8480	0	---	---	4	140	3679	0	---	-----
52 Business	24	1040	15778	0	---	---	6	186	4472	0	---	-----
33 Conradi	1	30	382	0	---	---	14	272	8873	1	150	1414
17 Dining Hall	2	105	1373	0	---	---	3	47	4178	0	---	-----
55 Education	24	849	55783	0	---	---	6	118	38778	0	---	-----
113 Geology	1	35	423	0	---	---	10	237	5358	1	219	2398
4 Graduate	3	100	2313	0	---	---	1	50	548	1	100	2222
3 History	24	1009	13426	0	---	---	3	70	1524	1	450	2435
135 Home Economics	3	197	1834	2	37	672	17	409	15327	0	---	-----
134 Library	3	102	1575	7	106	1667	1	24	500	0	---	-----
121 Maint. Bldg. Annex-ROTC	6	210	4075	0	---	---	0	----	-----	0	---	-----
89 Music	4	230	2914	0	---	---	2	220	552	1	75	552
5 Psychology	5	275	3424	0	---	---	0	----	-----	0	---	-----
2 Science	5	163	2590	0	---	---	10	310	9642	2	320	4168
132 Tully Gym	5	145	3180	1	20	384	0	----	-----	0	---	-----
1 Westcott	1	45	575	0	---	---	7	233	6293	0	---	-----
25 Women's Gym	2	45	434	0	---	---	0	----	-----	0	---	-----
ALL BUILDINGS	123	5065	118559	10	163	2723	84	2316	99724	7	1314	13189

Table 2 shows that the total number of rooms used for instruction has increased from 143 in the fall of 1955 to 224 in the fall of 1959. Most of the increase is to be attributed to the opening of the School of Business Building and the School of Education Building in the summer of 1958.

TABLE 2

PERMANENT INSTRUCTIONAL SPACE: 1955-1959

TYPE OF INSTRUCTIONAL SPACE	NUMBER: 1955	NUMBER: 1956	NUMBER: 1957	NUMBER: 1958	NUMBER: 1959
General Classrooms	79	103	94	125	123
Seminar Rooms	6	11	7	8	10
Teaching Laboratories	53	71	78	83	84
Teaching Auditoriums	5	6	6	5	7
ALL TYPES COMBINED	143	191	185	221	224

Total Room-Periods Scheduled. Table 3 shows the total room-periods scheduled at any time during the calendar week. It will be noted that nearly 96 per cent of the room-periods are scheduled within the daylight hours (i.e., 8:00 A.M.-5:00 P.M.), Monday through Friday. Slightly less than four per cent of the room-periods are scheduled after 5:00 P.M., Monday through Friday. Only 0.5 per cent are scheduled on Saturday.

These data, essentailly similar to data reported for 1955, 1956, 1957, and 1958, show a slight but steady decrease in the percentage of total room-periods scheduled beyond the daylight hours (6.0% in 1955, 5.5% in 1956, 4.5% in 1957, 4.1% in 1958 and 3.8% in 1959). For all practical purposes it may be said that the Florida State University operates on a daylight schedule, Monday through Friday.

TABLE 3

TOTAL ROOM-PERIODS SCHEDULED AT ANY
TIME DURING THE CALENDAR WEEK
All Instructional Space
Fall, 1959

TYPE OF SPACE	ROOM-PERIODS USED			
	8:00-5:00 Mon.-Fri.	After 5:00 Mon.-Fri.	Saturday	Total
GENERAL CLASSROOM	3267.0	111.5	13.0	3391.5
SEMINAR ROOM	42.0	0.0	0.0	42.0
TEACHING LABORATORY	1141.0	70.5	12.0	1223.5
TEACHING AUDITORIUM	182.0	3.5	0.0	185.5
OTHER	216.0	5.0	0.0	221.0
TEMPORARY	135.0	6.0	0.0	141.0
TOTAL	4983.0	196.5	25.0	5204.5
PERCENTAGE OF TOTAL ROOM-PERIODS USED DURING EACH PART OF WEEK	95.7%	3.8%	0.5%	100.0%

Utilization of Instructional Space: By Days of the Week. Tables 4 through 8 indicate room-periods used and student-station-periods used by days of the week for general classrooms, seminar rooms, teaching laboratories, and teaching auditoriums in all permanent buildings.[1] Observation of these tables shows that instructional facilities may be arranged, from most-used, to least-used, in this order: general classrooms, teaching auditoriums, teaching laboratories, and seminar rooms.

It will be noted in Tables 4 through 8 that the percentages of possible utilization of room-periods and student-station-periods are based on the number of room-periods and student-station-periods available each day. Each room and each student-station are considered available eight hours each day, Monday through Friday, and four hours on Saturday. The percentages showing total usage are computed as the percentages of possible room-period and student-station-period utilization on the basis of a 44-hour weekly schedule, but all regularly scheduled instructional use throughout the calendar week is included.

Tables 4, 5, 7, and 8 show that room-periods and student-station-periods are more heavily scheduled on Mondays and Wednesdays than on Tuesdays, Thursdays, and Fridays for general classrooms, teaching laboratories, teaching auditoriums, and for all types of facilities combined. Seminar rooms are most used on Thursdays. As would be expected, all types of rooms show little or no usage on Saturdays. Reasonable balance, in general, has been achieved in scheduling instructional space among the various days of the five-day week, Monday through Friday.

---

[1] These forms have also been completed for each individual building and are contained in Appendix H in a master copy of this report which may be seen in the Office of Institutional Research and Service.

TABLE 4

UTILIZATION OF INSTRUCTIONAL SPACE
BY DAYS OF THE WEEK

All Instructional Space: All Buildings
Fall, 1959

Number of Rooms 224

Number of Student Stations 8858

Number of Room-Periods Available Each Day*
Monday-Friday 1792
Saturday 896

No. Student-Station-Periods Available Each Day*
Monday-Friday 70864
Saturday 35432

Day of the Week	Room Basis			Student Station Basis		
	Total Room-Periods Used	Ave. No. Of Periods Rooms Used	Percentage of Possible* Utilization	Total Student-Station-Periods Occupied	Ave. No. of Periods Student-Stations Used	Percentage of Possible* Utilization
Monday	1055.0	4.7	59%	27858.0	3.1	39%
Tuesday	922.0	4.1	51	22254.0	2.5	31
Wednesday	1062.0	4.7	59	28268.0	3.2	40
Thursday	882.0	3.9	49	21463.5	2.4	30
Friday	896.5	4.0	50	24310.0	2.7	34
Saturday	25.0	0.1	3	210.0	0.0**	1
TOTAL FOR 5½ DAYS	4842.5	21.6	49%	124363.5	14.0	32%

*Based on 44-hour week, eight hours each day Monday through Friday and four hours on Saturday.

**Less than 0.05.

TABLE 5

UTILIZATION OF INSTRUCTIONAL SPACE
BY DAYS OF THE WEEK

General Classrooms: All Buildings
Fall, 1959

Number of Rooms 123

Number of Students Stations 5065

Number of Room-Periods Available Each Day*
Monday-Friday 984
Saturday 492

No. Student-Station-Periods Available Each Day*
Monday-Friday 40520
Saturday 20260

Day of the Week	Room Basis			Student Station Basis		
	Total Room-Periods Used	Ave. No. of Periods Rooms Used	Percentage of Possible* Utilization	Total Student-Station-Periods Occupied	Ave. No. of Periods Student-Stations Used	Percentage of Possible* Utilization
Monday	756.5	6.2	77%	19035.5	3.8	47%
Tuesday	626.5	5.1	64	15420.0	3.0	38
Wednesday	750.5	6.1	76	19168.5	3.8	47
Thursday	594.0	4.8	60	14614.5	2.9	36
Friday	651.0	5.3	66	16787.5	3.3	41
Saturday	13.0	0.1	3	52.0	0.0**	0***
TOTAL FOR 5½ DAYS	3391.5	27.6	63%	85078.0	16.8	38%

*Based on 44-hour week, eight hours each day Monday through Friday and four hours on Saturday.

**Less than 0.05.

***Less than 0.5%.

TABLE 6

UTILIZATION OF INSTRUCTIONAL SPACE
BY DAYS OF THE WEEK

Seminar Rooms: All Buildings
Fall, 1959

Number of Rooms 10

Number of Student Stations 163

Number of Room-Periods Available Each Day*
Monday-Friday 80
Saturday 40

No. Student-Station-Periods Available Each Day*
Monday-Friday 1304
Saturday 652

Day of the Week	Room Basis			Student Station Basis		
	Total Room-Periods Used	Ave. No. of Periods Rooms Used	Percentage of Possible* Utilization	Total Student-Station-Periods Occupied	Ave. No. of Periods Student-Stations Used	Percentage of Possible* Utilization
Monday	8.0	.8	10%	34.0	0.2	3%
Tuesday	10.5	1.0	13	97.0	0.6	7
Wednesday	7.0	.7	9	35.0	0.2	3
Thursday	11.5	1.2	14	95.0	0.6	7
Friday	5.0	.5	6	31.0	0.2	2
Saturday	0.0	--	--	0.0	--	--
TOTAL FOR 5½ DAYS	42.0	4.2	10%	292.0	1.8	4%

*Based on 44-hour week, eight hours each day Monday through Friday and four hours on Saturday.

TABLE 7

UTILIZATION OF INSTRUCTIONAL SPACE
BY DAYS OF THE WEEK

Teaching Laboratories: All Buildings
Fall, 1959

Number of Rooms 84

Number of Student Stations 2316

Number of Room-Periods Available Each Day*
Monday-Friday 672
Saturday 336

No. Student-Station-Periods Available Each Day*
Monday-Friday 18528
Saturday 9264

Day of the Week	Room Basis			Student Station Basis		
	Total Room-Periods Used	Ave. No. of Periods Rooms Used	Percentage of Possible* Utilization	Total Student-Station-Periods Occupied	Ave. No. of Periods Student-Stations Used	Percentage of Possible* Utilization
Monday	249.5	3.0	37%	4946.5	2.1	27%
Tuesday	251.5	3.0	37	4860.5	2.1	26
Wednesday	262.5	3.1	39	5410.5	2.3	29
Thursday	245.5	2.9	37	4687.5	2.0	25
Friday	202.5	2.4	30	4104.5	1.8	22
Saturday	12.0	0.1	4	158.0	0.1	2
TOTAL FOR 5½ DAYS	1223.5	14.6	33%	24167.5	10.4	24%

*Based on 44-hour week, eight hours each day Monday through Friday and four hours on Saturday.

TABLE 8

UTILIZATION OF INSTRUCTIONAL SPACE
BY DAYS OF THE WEEK

Teaching Auditoriums: All Buildings
Fall, 1959

Number of Rooms 7

Number of Student Stations 1314

Number of Room-Periods Available Each Day*
Monday-Friday 56
Saturday 28

No. Student-Station-Periods Available Each Day*
Monday-Friday 10512
Saturday 5256

Day of the Week	Room Basis			Student Station Basis		
	Total Room-Periods Used	Ave. No. of Periods Rooms Used	Percentage of Possible* Utilization	Total Student-Station-Periods Occupied	Ave. No. of Periods Student-Stations Used	Percentage of Possible* Utilization
Monday	41.0	5.9	73%	3842.0	2.9	37%
Tuesday	33.5	4.8	60	1876.5	1.4	18
Wednesday	42.0	6.0	75	3654.0	2.8	35
Thursday	31.0	4.4	55	2066.5	1.6	20
Friday	38.0	5.4	68	3387.0	2.6	32
Saturday	0.0	--	--	0.0	--	--
TOTAL FOR 5½ DAYS	185.5	26.5	60%	14826.0	11.3	26%

*Based on 44-hour week, eight hours each day Monday through Friday and four hours on Saturday.

When all types of facilities are considered together the room-period use totals 49 per cent of all the room-periods available during a 44-hour week and the student-station-period use totals 32 per cent of all the student-station-periods available during a 44-hour week. These percentages are higher than the comparable figures for the fall of 1958 of 45 per cent and 30 per cent respectively.

Utilization of Instructional Space: By Hours of the Day. Tables 9 through 13 indicate room-periods and student-station-periods used by hours of the day for general classrooms, seminar rooms, teaching laboratories, and teaching auditoriums in all permanent buildings.[1] It will be noted that percentages of room-periods and student-station-periods used are based on the number of room-periods and student-station-periods available each hour. Each morning period (any period beginning before 12 N) is considered available six days a week and each afternoon period (any period beginning 12 N or later) is considered available five days a week. Hence in Table 9 the percentages of possible utilization of room-periods for the hours beginning at 1:00 P.M. and 2:00 P.M. are greater than the percentage of possible utilization of room-periods for the hour beginning at 8:00 A.M. and 9:00 A.M. even though there are actually more room-periods used during the 8:00 A.M. and 9:00 A.M. hours than either of the other two hours.

It may be seen in Table 9 that when all types of facilities are considered together the instructional rooms show a greater percentage of possible utilization during the six periods, in order: 10:00 A.M.; 2:00 P.M.; 11:00 A.M.; 9:00A.M.; 1:00 P.M.; and 8:00 A.M. Student-station-periods for all types of facilities

---

[1]These forms have also been completed for each individual building and are contained in Appendix H in a master copy of this report which may be seen in the Office of Institutional Research and Service.

TABLE 9

UTILIZATION OF INSTRUCTIONAL SPACE
BY HOURS OF THE DAY

All Instructional Space: All Buildings
Fall, 1959

Number of Rooms 224
Number of Student Stations 8858

	Hours Before Noon*	Hours After Noon*
Number of Room-Periods Available Each Hour	1344	1120
Number of Student-Station-Periods Available Each Hour	53148	44290

Hour of the Day	Room Basis			Student Station Basis		
	Total No. Room-Periods Used	Ave. No. of Periods Rooms Used Per Wk.	Percentage of Possible Utilization	Total No. Stu.-Sta.-Periods Used	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization
7 - 8AM	0.0	---	---	0.0	---	---
8 - 9	552.0	2.5	41%	15874.5	1.8	30%
9 - 10	683.0	3.0	51	18527.5	2.1	35
10 - 11	732.5	3.3	55	19294.0	2.2	36
11 - 12N	703.5	3.1	52	17409.0	2.0	33
12 - 1PM	322.0	1.4	29	8883.0	1.0	20
1 - 2	489.5	2.2	44	12352.5	1.4	28
2 - 3	597.0	2.7	53	14964.5	1.7	34
3 - 4	363.0	1.6	32	8088.0	0.9	18
4 - 5	214.5	1.0	19	4895.0	0.6	11
5 - 6	22.5	0.1	2	328.0	0.0**	1
6 - 7	24.0	0.1	2	378.0	0.0**	1
7 - 8	62.0	0.3	6	1517.0	0.2	3
8 - 9	54.5	0.2	5	1336.0	0.2	3
9 - 10	22.5	0.1	2	516.5	0.1	1

*Any period beginning before 12 N is to be considered to be available six days a week and any period beginning 12 N or later is to be considered to be available five days a week.

**Less than 0.05.

TABLE 10

UTILIZATION OF INSTRUCTIONAL SPACE
BY HOURS OF THE DAY

General Classrooms: All Buildings
Fall, 1959

Number of Rooms 123
Number of Student Stations 5065

	Hours Before Noon*	Hours After Noon*
Number of Room-Periods Available Each Hour	738	615
Number of Student-Station-Periods Available Each Hour	30390	25325

Hour of the Day	Room Basis			Student Station Basis		
	Total No. Room-Periods Used	Ave. No. of Periods Rooms Used Per Wk.	Percentage of Possible Utilization	Total No. Stu.-Sta.-Periods Used	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization
7 - 8AM	0.0	---	---	0.0	---	---
8 - 9	437.0	3.6	59%	11705.5	2.3	39%
9 - 10	515.5	4.2	70	13789.0	2.7	45
10 - 11	538.5	4.4	73	13914.0	2.7	46
11 - 12N	507.5	4.1	69	12352.0	2.4	41
12 - 1PM	259.0	2.1	42	6722.5	1.3	27
1 - 2	333.5	2.7	54	8409.0	1.7	33
2 - 3	380.0	3.1	62	9407.5	1.9	37
3 - 4	206.0	1.7	33	4745.0	0.9	19
4 - 5	103.0	0.8	17	1931.5	0.4	8
5 - 6	7.0	0.1	1	43.0	0.0**	0***
6 - 7	15.0	0.1	2	241.0	0.0**	1
7 - 8	40.0	0.3	7	786.0	0.2	3
8 - 9	35.5	0.3	6	703.0	0.1	3
9 - 10	14.0	0.1	2	324.0	0.1	1

*Any period beginning before 12 N is to be considered to be available six days a week, and any period beginning 12 N or later is to be considered to be available five days a week.
**Less than 0.05.
***Less than 0.5%.

TABLE 11

UTILIZATION OF INSTRUCTIONAL SPACE
BY HOURS OF THE DAY

Seminar Rooms: All Buildings
Fall, 1959

Number of Rooms 10
Number of Student Stations 163

	Hours Before Noon*	Hours After Noon*
Number of Room-Periods Available Each Hour	60	50
Number of Student-Station-Periods Available Each Hour	978	815

Hour of the Day	Room Basis			Student Station Basis		
	Total No. Room-Periods Used	Ave. No. of Periods Rooms Used Per Wk.	Percentage of Possible Utilization	Total No. Stu.-Sta.-Periods Used	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization
7 - 8AM	0.0	---	---	0.0	---	---
8 - 9	2.0	0.2	3%	14.0	0.1	1%
9 - 10	8.0	0.8	13	49.0	0.3	5
10 - 11	7.0	0.7	12	56.0	0.3	6
11 - 12N	7.0	0.7	12	38.0	0.2	4
12 - 1PM	7.0	0.7	14	33.0	0.2	4
1 - 2	0.0	---	---	0.0	---	---
2 - 3	5.0	0.5	10	58.0	0.4	7
3 - 4	4.0	0.4	8	29.0	0.2	4
4 - 5	2.0	0.2	4	15.0	0.1	2
5 - 6	0.0	---	---	0.0	---	---
6 - 7	0.0	---	---	0.0	---	---
7 - 8	0.0	---	---	0.0	---	---
8 - 9	0.0	---	---	0.0	---	---
9 - 10	0.0	---	---	0.0	---	---

*Any period beginning before 12 N is to be considered to be available six days a week, and any period beginning 12 N or later is to be considered to be available five days a week.

TABLE 12

UTILIZATION OF INSTRUCTIONAL SPACE
BY HOURS OF THE DAY

Teaching Laboratories: All Buildings
Fall, 1959

Number of Rooms 84
Number of Student Stations 2316

	Hours Before Noon*	Hours After Noon*
Number of Room-Periods Available Each Hour	504	420
Number of Student-Station-Periods Available Each Hour	13896	11580

Hour of the Day	Room Basis			Student Station Basis		
	Total No. Room-Periods Used	Ave. No. of Periods Rooms Used Per Wk.	Percentage of Possible Utilization	Total No. Stu.-Sta.-Periods Used	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization
7 - 8AM	0.0	---	---	0.0	---	---
8 - 9	92.0	1.1	18%	1877.0	0.8	14%
9 - 10	134.5	1.6	27	2592.5	1.1	19
10 - 11	158.0	1.9	31	3011.0	1.3	22
11 - 12N	161.0	1.9	32	3144.0	1.4	23
12 - 1PM	40.0	0.5	10	652.5	0.3	6
1 - 2	139.0	1.7	33	2476.0	1.1	21
2 - 3	184.0	2.2	44	3226.0	1.4	28
3 - 4	141.0	1.7	34	2678.0	1.2	23
4 - 5	103.5	1.2	25	2811.5	1.2	24
5 - 6	14.5	0.2	3	273.0	0.1	2
6 - 7	9.0	0.1	2	137.0	0.1	1
7 - 8	21.0	0.3	5	624.0	0.3	5
8 - 9	18.0	0.2	4	526.0	0.2	5
9 - 10	8.0	0.1	2	139.0	0.1	1

*Any period beginning before 12 N is to be considered to be available six days a week, and any period beginning 12 N or later is to be considered to be available five days a week.

TABLE 13

UTILIZATION OF INSTRUCTIONAL SPACE
BY HOURS OF THE DAY

Teaching Auditoriums: All Buildings
Fall, 1959

Number of Rooms 7
Number of Student Stations 1314

	Hours Before Noon*	Hours After Noon*
Number of Room-Periods Available Each Hour	42	35
Number of Student-Station-Periods Available Each Hour	7884	6570

Hour of the Day	Room Basis			Student Station Basis		
	Total No. Room-Periods Used	Ave. No. of Periods Rooms Used Per Wk.	Percentage of Possible Utilization	Total No. Stu.-Sta.-Periods Used	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization
7 - 8AM	0.0	---	---	0.0	---	---
8 - 9	21.0	3.0	50%	2278.0	1.7	29%
9 - 10	25.0	3.6	60	2097.0	1.6	27
10 - 11	29.0	4.1	69	2313.0	1.8	29
11 - 12N	28.0	4.0	67	1870.0	1.4	24
12 - 1PM	16.0	2.3	46	1475.0	1.1	22
1 - 2	17.0	2.4	49	1467.5	1.1	22
2 - 3	28.0	4.0	80	2273.5	1.7	35
3 - 4	12.0	1.7	34	636.0	0.5	10
4 - 5	6.0	0.9	17	137.0	0.1	2
5 - 6	1.0	0.1	3	12.0	0.0**	0***
6 - 7	0.0	---	---	0.0	---	---
7 - 8	1.0	0.1	3	107.0	0.1	2
8 - 9	1.0	0.1	3	107.0	0.1	2
9 - 10	0.5	0.1	1	53.5	0.0**	1

*Any period beginning before 12 N is to be considered to be available six days a week, and any period beginning 12 N or later is to be considered to be available five days a week.

**Less than 0.05.

***Less than 0.5%.

show a greater percentage of possible utilization these same six periods but in a slightly different order: 10:00 A.M.; 9:00 A.M.; 2:00 P.M.; 11:00 A.M.; 8:00 A.M.; and 1:00 P.M. As would be expected, the hours after 5:00 P.M. are used substantially less. Of these, the hours beginning at 7:00 P.M. and 8:00 P.M. are used most.

Tables 10 through 13 show variations in the usage of room-periods and student-station-periods by hours of the day for each type of instructional space. When all types of instructional space are considered together it was noted that the morning hours, in general, were used most. Reasonable balance has been achieved in scheduling instructional activities among the hours from 8:00 A.M.-5:00 P.M.

Utilization of Instructional Space: By Buildings. Tables 14 through 18 indicate facts concerning the usage of instructional space in each of the permanent buildings. When all types of instructional space are considered together the average number of periods the instructional rooms in a particular building are used per week varies from 32.9 to 7.5, the percentage of possible utilization of rooms varying from 75 per cent (Psychology) to 17 per cent (Geology Building). For all types of instructional space together student-stations in a particular building are used an average number of periods varying from 19.5 to 6.9. The percentage of possible utilization of student stations varies from 44 per cent (Conradi and Graduate Building) to 14 per cent (Home Economics). The percentage of use of student-stations when the rooms are assigned varies for individual buildings from 79 per cent (Women's Gymnasium) to 44 per cent (Music Building).

Tables 15 through 18 show similar facts concerning utilization of rooms and student-stations for each building for each type of instructional room.

TABLE 14

SUMMARY OF UTILIZATION DATA
BY BUILDINGS

All Instructional Space
Fall, 1959

Buildings	Room Basis			Student Station Basis			
	No. of Rooms	Ave. No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
"A"	14	27.2	62%	625	14.4	33%	51%
Business	30	24.2	55	1226	15.7	36	62
Conradi	16	20.1	46	452	19.5	44	77
Dining Hall	5	11.8	27	152	6.9	16	55
Education	30	25.0	57	967	13.5	31	53
Geology	12	7.5	17	491	8.2	18	46
Graduate	5	28.4	64	250	19.1	44	70
History	28	32.2	73	1529	17.5	40	66
Home Economics	22	12.4	28	643	7.7	14	48
Library	11	7.7	18	232	7.8	18	68
Main. Bldg. Annex-ROTC	6	17.0	39	210	12.6	29	74
Music	7	29.8	68	525	12.5	28	44
Psychology	5	32.9	75	275	18.7	42	57
Science	17	19.4	44	793	12.6	28	58
Tully Gym	6	23.6	53	165	18.0	41	74
Westcott	8	17.6	40	278	10.9	25	47
Women's Gym	2	15.5	35	45	14.7	33	79
ALL BUILDINGS	224	21.6	49%	8858	14.0	32%	59%

*Based on a 44-hour week.

TABLE 15

SUMMARY OF UTILIZATION DATA
BY BUILDINGS

General Classrooms
Fall, 1959

Buildings	Room Basis			Student Station Basis			
	No. of Rooms	Ave. No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
"A"	10	31.8	72%	485	16.7	38%	52%
Business	24	26.1	59	1040	16.1	37	61
Conradi	1	25.0	57	30	13.3	30	53
Dining Hall	2	12.0	27	105	5.8	13	84
Education	24	26.9	61	849	13.5	31	51
Geology	1	14.0	32	35	7.5	17	54
Graduate	3	30.0	68	100	26.3	60	87
History	24	34.4	78	1009	24.4	55	71
Home Economics	3	31.3	78	197	9.8	22	34
Library	3	21.8	50	102	15.8	36	73
Main. Bldg. Annex-ROTC	6	17.0	39	210	12.6	29	74
Music	4	32.8	74	230	14.1	32	42
Psychology	5	32.9	75	275	18.7	42	57
Science	5	17.2	39	163	9.4	21	55
Tully Gym	5	25.6	58	145	19.8	45	76
Westcott	1	21.0	48	45	14.1	32	67
Women's Gym	2	15.5	35	45	14.7	33	79
ALL BUILDINGS	123	27.6	63%	5065	16.8	38%	60%

*Based on a 44-hour week.

TABLE 16

SUMMARY OF UTILIZATION DATA
BY BUILDINGS

Seminar Rooms
Fall, 1959

Buildings	Room Basis			Student Station Basis			
	No. of Rooms	Ave. No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
"A"	0	---	---	0	---	---	---
Business	0	---	---	0	---	---	---
Conradi	0	---	---	0	---	---	---
Dining Hall	0	---	---	0	---	---	---
Education	0	---	---	0	---	---	---
Geology	0	---	---	0	---	---	---
Graduate	0	---	---	0	---	---	---
History	0	---	---	0	---	---	---
Home Economics	2	8.0	18%	37	2.2	5%	27%
Library	7	1.9	4	106	10.1	2	35
Main. Bldg. Annex-ROTC	0	---	---	0	---	---	---
Music	0	---	---	0	---	---	---
Psychology	0	---	---	0	---	---	---
Science	0	---	---	0	---	---	---
Tully Gym	1	13.0	29	20	4.9	11	38
Westcott	0	---	---	0	---	---	---
Women's Gym	0	---	---	0	---	---	---
ALL BUILDINGS	10	4.2	10%	163	1.8	4%	33%

*Based on a 44-hour week.

TABLE 17

SUMMARY OF UTILIZATION DATA
BY BUILDINGS

Teaching Laboratories
Fall, 1959

Buildings	Room Basis			Student Station Basis			
	No. of Rooms	Ave. No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
"A"	4	15.9	36%	140	6.3	14%	43%
Business	6	16.7	38	186	13.0	29	68
Conradi	14	18.8	43	272	17.1	39	84
Dining Hall	3	11.7	27	47	9.3	21	66
Education	6	16.8	39	118	13.3	30	79
Geology	10	4.3	10	237	1.8	4	36
Graduate	1	27.0	61	50	15.2	34	56
History	3	22.0	50	70	28.4	65	130
Home Economics	17	9.5	22	409	7.2	16	67
Library	1	6.0	14	24	3.6	8	58
Main. Bldg. Annex-ROTC	0	---	---	0	---	---	---
Music	2	25.0	57	220	9.0	20	39
Psychology	0	---	---	0	---	---	---
Science	10	18.6	42	310	11.6	26	65
Tully Gym	0	---	---	0	---	---	---
Westcott	7	17.1	39	233	10.3	24	44
Women's Gym	0	---	---	0	---	---	---
ALL BUILDINGS	84	14.6	33%	2316	10.4	24%	63%

*Based on a 44-hour week.

TABLE 18

SUMMARY OF UTILIZATION DATA
BY BUILDINGS

Teaching Auditoriums
Fall, 1959

Buildings	Room Basis			Student Station Basis			
	No. of Rooms	Ave. No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave. No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
"A"	0	---	---	0	---	---	---
Business	0	---	---	0	---	---	---
Conradi	1	34.0	77%	150	25.1	57%	74%
Dining Hall	0	---	---	0	---	---	---
Education	0	---	---	0	---	---	---
Geology	1	32.0	73	219	15.2	34	47
Graduate	1	25.0	57	100	14.0	32	56
History	1	10.0	23	450	.4	1	4
Home Economics	0	---	---	0	---	---	---
Library	0	---	---	0	---	---	---
Main. Bldg. Annex-ROTC	0	---	---	0	---	---	---
Music	1	27.5	62	75	17.7	40	64
Psychology	0	---	---	0	---	---	---
Science	2	28.5	65	320	15.1	34	56
Tully Gym	0	---	---	0	---	---	---
Westcott	0	---	---	0	---	---	---
Women's Gym	0	---	---	0	---	---	---
ALL BUILDINGS	7	26.5	60%	1314	11.3	26%	50%

*Based on a 44-hour week.

Utilization of Instructional Space: By Size of Room. A view of Table 19 would seem to indicate that the larger rooms (with 51-150 student stations) were used more often than were the smaller rooms. Rooms which have stations for 81-100 students and those which have stations for 101-150 students were used 70 per cent of the available periods whereas rooms which have stations for 1-10 students were used only 17 per cent of the available periods. This is due in part to the fact that many of the smaller rooms are teaching laboratories or seminar rooms which show a lower utilization of space whereas the larger rooms are either general classrooms or teaching auditoriums for which the utilization of space is higher. In general, the percentage of use of student stations available when the rooms are assigned decreases as the size of the room increases. It will be noted that the percentage of utilization of student stations when rooms are assigned is relatively high--59 per cent for all instructional space. Similar data for each type of instructional room are given in Tables 20 through 23.

Class Size in Relation to Room Capacity. Tables 24 through 28 show, for each type of instructional room and for all types combined, the relationship of class size to room size expressed in terms of the number of student stations. Entries above the heavy line indicate the number of class-period meetings in which enrollments are approximately equal to or larger than the number of student-stations in the rooms in which they are held. Entries in each column show the distribution, by size of rooms, of classes of the size indicated by the column heading. Entries in each row show the distribution, by size of classes, of classes meeting in the rooms of the capacity indicated in the row heading.

As might be expected, far more classes are of less-than-room-capacity size than of more-than-room-capacity size. It will be noted, however, that, in general, the sizes of the classes are fairly well suited to the sizes of the rooms. The distribution is reasonably equitable.

TABLE 19

SUMMARY OF UTILIZATION DATA
BY SIZE OF ROOMS

All Instructional Space
Fall, 1959

No. of Student Sta. in Room	Room Basis			Student Station Basis			
	No. of Rooms	Ave.No.Of Periods Rooms Used Per Week	Percentage of Posible Utilization*	No. of Student Stations	Ave.No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
1-10	3	7.3	17%	28	5.0	11%	67%
11-20	45	10.0	23	739	8.8	20	83
21-30	45	19.7	46	1170	13.9	32	71
31-40	68	25.6	58	2446	16.3	37	64
41-50	33	26.7	61	1512	15.5	35	58
51-60	14	29.4	67	785	17.4	40	60
61-80	6	28.8	65	416	16.1	37	56
81-100	4	31.0	70	395	14.1	32	46
101-150	2	31.0	70	273	16.0	36	51
151-250	3	26.7	61	644	12.6	29	47
251-Over	1	10.0	23	450	.4	1	4
TOTAL	224	21.6	49%	8858	14.1	32%	59%

*Based on a 44-hour week.

TABLE 20

SUMMARY OF UTILIZATION DATA
BY SIZE OF ROOMS

General Classrooms
Fall, 1959

No. of Student Sta. in Room	Room Basis			Student Station Basis			
	No. of Rooms	Ave.No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave.No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
1-10	0	---	---	0	---	---	---
11-20	2	9.0	20%	30	3.6	8%	40%
21-30	16	26.1	59	440	18.1	41	70
31-40	59	27.3	62	2126	17.5	40	64
41-50	27	27.9	63	1235	16.5	38	59
51-60	12	32.0	73	670	18.8	43	59
61-80	5	29.0	66	341	15.7	36	54
81-100	1	35.0	80	100	12.1	28	35
101-150	1	28.0	64	123	4.8	11	17
151-250	0	---	---	0	---	---	---
251-Over	0	---	---	0	---	---	---
TOTAL	123	27.6	63%	5065	16.9	38%	60%

*Based on a 44-hour week.

TABLE 21

SUMMARY OF UTILIZATION DATA
BY SIZE OF ROOMS

Seminar Rooms
Fall, 1959

No. of Student Sta. in Room	Room Basis			Student Station Basis			
	No. of Rooms	Ave.No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave.No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
1-10	0	---	---	0	---	---	---
11-20	8	2.9	7%	110	1.6	4%	46%
21-30	2	9.5	21	53	2.2	5	23
31-40	0	---	---	0	---	---	---
41-50	0	---	---	0	---	---	---
51-60	0	---	---	0	---	---	---
61-80	0	---	---	0	---	---	---
81-100	0	---	---	0	---	---	---
101-150	0	---	---	0	---	---	---
151-250	0	---	---	0	---	---	---
251-Over	0	---	---	0	---	---	---
TOTAL	10	4.2	10%	163	1.8	4%	33%

*Based on a 44-hour week.

TABLE 22

SUMMARY OF UTILIZATION DATA
BY SIZE OF ROOMS

Teaching Laboratories
Fall, 1959

No. of Student Sta. in Room	Room Basis			Student Station Basis			
	No.of Rooms	Ave.No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave.No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
1-10	3	7.3	17%	28	5.0	11%	67%
11-20	35	11.7	27	599	10.4	24	86
21-30	27	16.6	38	677	12.1	27	73
31-40	9	14.4	33	320	8.5	19	58
41-50	6	21.7	49	277	10.6	24	49
51-60	2	14.0	32	115	9.5	22	67
61-80	0	---	---	0	---	---	---
81-100	1	32.0	73	100	11.1	25	35
101-150	0	---	---	0	---	---	---
151-250	1	23.0	52	200	9.0	20	39
251-Over	0	---	---	0	---	---	---
TOTAL	84	14.6	33%	2316	10.4	24%	63%

*Based on a 44-hour week.

TABLE 23

SUMMARY OF UTILIZATION DATA
BY SIZE OF ROOMS

Teaching Auditoriums
Fall, 1959

No. of Student Sta. in Room	Room Basis			Student Station Basis			
	No.of Rooms	Ave.No. of Periods Rooms Used Per Week	Percentage of Possible Utilization*	No. of Student Stations	Ave.No. of Periods Stu. Stations Used Per Week	Percentage of Possible Utilization*	Percentage of Use When Rooms Assigned
1-10	0	---	---	0	---	---	---
11-20	0	---	---	0	---	---	---
21-30	0	---	---	0	---	---	---
31-40	0	---	---	0	---	---	---
41-50	0	---	---	0	---	---	---
51-60	0	---	---	0	---	---	---
61-80	1	27.5	63%	75	17.7	40%	64%
81-100	2	28.5	65	195	16.7	38	59
101-150	1	34.0	77	150	25.1	57	74
151-250	2	28.5	65	444	14.2	32	50
251- Over	1	10.0	23	450	.4	1	4
TOTAL	7	26.5	60%	1314	11.3	26%	50%

*Based on a 44-hour week.

TABLE 24

CLASS SIZE IN RELATION TO ROOM CAPACITY
All Instructional Space
Fall, 1959

Room Capacity	Number of Class-Period Meetings Per Week For Classes of Each Group												Total	Percentage	Cumulative Percentage
	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 80	81 to 100	101 to 150	151 to 200	201 to 250	251 and Over			
1 to 10	22												22	0.5	0.5
11 to 20	169½	183	51	45			2						450½	9.3	9.8
21 to 30	195	343	314	32	2								886	18.3	28.1
31 to 40	244½	523½	628	246	94	6							1742	36.0	64.1
41 to 50	95½	244½	265	171	59	39	8						882	18.2	82.3
51 to 60	31	61	50½	173	69	21	6						411½	8.5	90.8
61 to 80	½	25½	31	58	22	12½	19		4				172½	3.6	94.4
81 to 100	5	16	13	35	20	7	10	15	3				124	2.6	97.0
101 to 150	9	6	6	8	3	4	5	5	8	8			62	1.3	98.3
151 to 200		4		9	1		2		1	6			23	0.5	98.8
201 to 250	1	1	1	4	1		18	2	14	6	9		57	1.2	100.0
251 & Over		6	4										10	0.2	100.2
TOTAL	773	1413½	1363½	781	271	89½	70	22	30	20	9	0	4842½		
Percentage	16.0	29.2	28.2	16.1	5.6	1.8	1.4	0.5	0.6	0.4	0.2	0.0			
Cumulative Percentage	16.0	45.2	73.4	89.5	95.1	96.9	98.3	98.8	99.4	99.8	100.0	---			

TABLE 25

CLASS SIZE IN RELATION TO ROOM CAPACITY
General Classrooms
Fall, 1959

Room Capacity	Number of Class-Period Meetings Per Week For Classes of Each Group												Total	Percentage	Cumulative Percentage
	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 80	81 to 100	101 to 150	151 to 200	201 to 250	251 and Over			
1 to 10													0	----	----
11 to 20	12	6											18	0.5	0.5
21 to 30	76	159	155	26	2								418	12.3	12.8
31 to 40	220½	485½	583	229	88	6							1612	47.5	60.3
41 to 50	74	213	225	136	57	39	8						752	22.2	82.5
51 to 60	28	60	50½	169	56	14	6						383½	11.3	93.8
61 to 80	½	18½	31	50	22	12	11						145	4.3	98.1
81 to 100	2	5	8	7	10		3						35	1.0	99.1
101 to 150	9	6	6	6	1								28	.8	99.9
151 to 200													0	----	----
201 to 250													0	----	----
251 & Over													0	----	----
Total	422	953	1058½	623	236	71	28	0	0	0	0	0	3391½		
Percentage	12.4	28.1	31.2	18.4	7.0	2.1	0.8	--	--	--	--	--			
Cumulative Percentage	12.4	40.5	71.7	90.1	97.1	99.2	100.0	--	--	--	--	--			

TABLE 26

CLASS SIZE IN RELATION TO ROOM CAPACITY

Seminar Rooms
Fall, 1959

Room Capacity	Number of Class-Period Meetings Per Week For Classes of Each Group												Total	Percentage	Cumulative Percentage
	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 80	81 to 100	101 to 150	151 to 200	201 to 250	251 and Over			
1 to 10													0	----	----
11 to 20	20	2	1										23	54.8	54.8
21 to 30	17	2											19	45.2	100.0
31 to 40													0	----	----
41 to 50													0	----	----
51 to 60													0	----	----
61 to 80													0	----	----
81 to 100													0	----	----
101 to 150													0	----	----
151 to 200													0	----	----
201 to 250													0	----	----
251 & Over													0	----	----
Total	37	4	1	0	0	0	0	0	0	0	0	0	42		
Percentage	88.1	9.5	2.4	--	--	--	--	--	--	--	--	--			
Cumulative Percentage	88.1	97.6	100.0	--	--	--	--	--	--	--	--	--			

TABLE 27
CLASS SIZE IN RELATION TO ROOM CAPACITY
Teaching Laboratories
Fall, 1959

Room Capacity	Number of Class-Period Meetings Per Week For Classes of Each Group												Total	Percentage	Cumulative Percentage
	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 80	81 to 100	101 to 150	151 to 200	201 to 250	251 and Over			
1 to 10	22												22	1.8	1.8
11 to 20	137½	175	50	45			2						409½	33.5	35.3
21 to 30	102	182	159	6									449	36.7	72.0
31 to 40	24	38	45	17	6								130	10.6	82.6
41 to 50	21½	31½	40	35	2								130	10.6	93.2
51 to 60	3	1		4	13	7							28	2.3	95.5
61 to 80													0	----	95.5
81 to 100				26	6								32	2.6	98.1
101 to 150													0	----	98.1
151 to 200	4			9	1		2		1	6			23	1.9	100.0
201 to 250													0	----	----
251 & Over													0	----	----
Total	314	427½	294	142	28	7	4	0	1	6	0	0	1223½		
Percentage	25.7	24.9	24.0	11.6	2.3	0.6	0.3	--	0.1	0.4	--	--			
Cumulative Percentage	25.7	60.6	84.6	96.2	98.5	99.1	99.4	99.4	99.5	99.9					

TABLE 28
CLASS SIZE IN RELATION TO ROOM CAPACITY
Teaching Auditoriums
Fall, 1959

Room Capacity	Number of Class-Period Meetings Per Week For Classes of Each Group												Total	Percentage	Cumulative Percentage
	1 to 10	11 to 20	21 to 30	31 to 40	41 to 50	51 to 60	61 to 80	81 to 100	101 to 150	151 to 200	201 to 250	251 and Over			
1 to 10													0	----	----
11 to 20													0	----	----
21 to 30													0	----	----
31 to 40													0	----	----
41 to 50													0	----	----
51 to 60													0	----	----
61 to 80		7		8		½	8		4				27½	14.8	14.8
81 to 100	3	11	5	2	4	7	7	15	3				57	30.7	45.5
101 to 150				2	2	4	5	5	8	8			34	18.3	63.8
151 to 200													0	----	63.8
201 to 250	1	1	1	4	1		18	2	14	6	9		57	30.7	94.5
251 & Over		6	4										10	5.4	99.9
Total	4	25	10	16	7	11½	38	22	29	14	9	0	185½		
Percentage	2.2	13.5	5.4	8.6	3.8	6.2	20.5	11.9	15.6	7.5	4.9	--			
Cumulative Percentage	2.2	15.7	21.1	29.7	33.5	39.7	60.2	72.1	87.7	95.2	100.1	--			

Use of Other or Special Types of Instructional Space. Certain other or special types of space (e.g., bowling alley, swimming pool) which do not fall into the usual classifications of instructional space are used for instructional purposes. Data concerning those miscellaneous facilities are briefly summarized in Appendix C.

Former Instructional Space Now Assigned to Other Uses. A number of rooms formerly used for instructional purposes have now been assigned to other uses (e.g., offices, conference rooms, or research laboratories). A summary of these former instructional rooms and the current use to which they have been assigned constitutes Appendix F.

Enrollment for Courses in Which No Regularly Scheduled Class Meetings Are Held. Appendix E Lists the enrollment for courses in which no regularly scheduled class meetings are held. This form completes the accounting for instruction given during the fall of 1959.

INTERPRETATION

Because of inherent difficulties[1] in making space utilization studies of this type the data presented here must be regarded as approximations. It is believed, however, that in every instance the approximations here set forth are very close to the true situation.

There are no established or uniformly recommended standards concerning room-period or student-station-period use of instructional space. On this point Russell and Doi say, "The establishment of norms for space utilization . . . is not possible at this time."[2] They do, however, as a modest beginning summarize

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[1] A number of these difficulties are listed in Appendix G.

[2] Russell, John Dale and Doi, James I. Manual for Studies of Space Utilization in Colleges and Universities. Athens, Ohio: Ohio University, 1957, p. 95.

space utilization for 101 institutions, the data for which were collected and computed by relatively common procedures--that is, procedures reasonably comparable to those recommended in the Manual. Within this company Florida State University showed efficient space utilization. In room-period utilization of general classrooms FSU stood at about the 87th percentile, of all instructional rooms at approximately the 71st percentile.[1] In student-station-period utilization among general classrooms FSU stood at about the 86th percentile.[2] No summary data were given concerning student-station-period utilization for all types of instructional rooms combined.

It will be noted[3] that for the fall of 1958, using this same basis of comparison, FSU stood at about the 72nd percentile for room-period utilization of general classrooms, at about the 54th percentile for room-period utilization of all instructional rooms; and at approximately the 79th percentile for student-station-period utilization in general classrooms. It will thus be seen that the utilization of permanent instructional space in the Florida State University was considerably more efficient in the fall of 1959 than it was in the fall of 1958.

SUMMARY AND CONCLUSIONS

Reported here is the seventh in a series of studies of utilization of permanent instructional space in the Florida State University. In making this 1959 study essentially the same methods were employed as were used in making the related studies in 1957 and 1958 and, with certain modifications suggested by the Office of the Board of Control, in making the related studies of 1955 and 1956. The

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[1]Based in this case on 90 of the 101 institutions.

[2]Based in this case on 84 of the 101 institutions.

[3]See reference in footnote 7 on page 1: p. 36.

patterns of instructional space utilization for the five years, while varying in detail, have been generally the same. As a result of this study the following conclusions seem to be in order:

1. The total number of instructional rooms in permanent buildings in the fall of 1959 is 224. Five instructional rooms in temporary buildings are used.

2. Nearly 96 per cent of the total room-periods used are scheduled between 8:00 A.M.-5:00 P.M., Monday through Friday. Only 3.8 per cent are scheduled after 5:00 P.M., Monday through Friday; 0.5 per cent are scheduled on Saturday.

3. When all types of instructional space in permanent buildings are considered together (1) the room-period use totals 49 per cent of all the room-periods available during a 44-hour week and (2) the student-station-period use totals 32 per cent of all the student-station-periods available during a 44-hour week.

4. General classrooms and teaching auditoriums are used substantially more than laboratories and seminar rooms.

5. General classrooms, teaching laboratories, and teaching auditoriums are used more on Mondays and Wednesdays than on Tuesdays, Thursdays, and Fridays. Seminar rooms are used most on Thursdays: All types of instructional rooms show little or no usage on Saturdays.

6. When all types of instructional space are considered together, the hours beginning at 9:00 A.M., 10:00 A.M., 11:00 A.M., and 2:00 P.M. have the highest percentages of use. The hours beginning at 8:00 A.M., 12:00 Noon and 1:00 P.M. also show high percentages of use. The least used hour of the daylight hours is that beginning at 4:00 P.M.

7. When all types of instructional space are considered together, the Psychology Building has the highest percentage of room-period use (75%) and the Conradi and Graduate School Buildings have the highest percentage of student-station-period use (44%).

8. The Geology Building shows the lowest percentage of room-period use (17%) for all types of instructional space considered together and the Home Economics Building shows the lowest percentage of student-station-period use (14%).

9. In general, rooms with 31 or more student-stations show a higher percentage of room-period use than do the smaller rooms.

10. Percentages of use of student-stations available when rooms are assigned tend to decrease as the size of the room increases.

11. Class size in general shows a direct relationship to the size of the room in which the class meets. In a substantial number of cases, however, small classes meet in classrooms having large numbers of student stations.

12. Standardized normative data concerning space utilization in American institutions of higher education are not yet available. However, space utilization studies reviewed in the Office of Institutional Research and Service and preliminary data summarized by Russell and Doi suggest that the Florida State University in comparison with similar institutions elsewhere is using its permanent instructional space effectively and efficiently.

APPENDIXES

APPENDIX A

RECORD OF USE OF INDIVIDUAL INSTRUCTIONAL ROOMS

FLORIDA STATE UNIVERSITY

Fall, 1959

Building_____

Room Number_____

Dept. Controlling Room_____

Assignable Floor Area_____ Sq.Ft.

No. Student Stations_____

Principal Use:

General Classroom_____

Teaching Laboratory_____

Seminar_____

Techg. Aud.-Spec. Lect._____

Other_____

Period of the Day	Number of Student Stations Occupied Each Period						Hourly Total	
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Student Stations	Hours Sched.
7 - 8AM								
8 - 9								
9 - 10								
10 - 11								
11 - 12								
12 - 1								
1 - 2								
2 - 3								
3 - 4								
4 - 5								
5 - 6								
6 - 7								
7 - 8								
8 - 9								
9 - 10								
Total Stu.Sta.								
Total Hrs.Sch.								

Average Student-Hours Occupancy per Station for Week_____

Percentage of Possible Student-Station-Period Use for Week_____

Percentage of Student-Stations Occupied in Rooms When Assigned_____

Percentage of Possible Room-Period Use for Week_____

APPENDIX B

DEFINITIONS OF TYPES OF INSTRUCTIONAL ROOMS

1. General Classrooms: Non-specialized instructional rooms equipped with seating for student use and with a desk, table or lecturn and a chair for the instructor are included in this category. Even though such rooms contain some equipment to meet the particular needs of any one subject, as in the case of lecture demonstration rooms, they are classed as general classrooms so long as the equipment does not render them unsuited to classes in almost any subject.

2. Seminar Rooms: Non-specialized rooms furnished and equipped to accommodate students and instructor(s) seated about a conference table are classified as seminar rooms. Rooms of this type that are not regularly available for class meetings because they are assigned for use as faculty or administrative conference rooms are not included as instructional space even though they may be used occasionally for class meetings.

3. Teaching Laboratories: Rooms that are equipped for a specialized laboratory-type instructional activity are classified as laboratories even though they may have sufficient flexibility for occasional use for lecture-recitation-discussion purposes. Such facilities of a laboratory type that are not available regularly for class meetings by virtue of assignment to faculty research are not included in this classification.

4. Teaching Auditoriums: Rooms with a stage, audience seating, and other equipment for the purpose of presenting plays, concerts, and similar programs are classified as teaching auditoriums if they are regularly available for scheduled class meetings.

5. Other or Not Classified: This category is reserved for instructional areas which for various reasons do not fall into the above classifications. The use of these "other" facilities is summarized in Appendix C.

APPENDIX C

NUMBER OF CLASS MEETINGS EACH WEEK
HELD IN SPACE NOT REGULARLY AVAILABLE FOR CLASS ACTIVITIES
AND IN SPECIAL TYPES OF INSTRUCTIONAL SPACE*

Building	Room No.	Description of Space	No. of Class Meetings/Week	No. Student Hrs. Occupancy/Week	Ave. No. of Periods of Use/Week
Dining Hall	22	Office	5.0	20.0	5.0
Geology	103	Conference Room	4.0	24.0	4.0
Home Economics	232	Counseling Office	3.0	6.0	3.0
Science	209	Reading Room	1.0	18.0	1.0
Building-80	100	Observation Room	5.0	45.0	5.0
Women's Gymnasium	27	Bowling Alley	39.0	1230.0	39.0
	105	Swimming Pool	48.0	1044.0	48.0
	208	Gym Floor	20.0	607.0	20.0
	213	Sports Floor	21.0	600.0	21.0
	301	Little Gym	24.0	720.0	24.0
	303	Club Room	24.0	537.0	24.0
	403	Dance Studio	27.0	963.0	27.0
	TOTALS	(12)	221.0	5814.0	18.4

*Data not included in main body of report.

APPENDIX D

USE OF INSTRUCTIONAL ROOMS IN TEMPORARY BUILDINGS*
(Entire Calendar Week)

Building	No. of Rooms	Total Room-Periods Used	Ave. No. Periods Rooms Used	Percentage of Possible** Utilization	No. of Student-Stations	Total Student-Station-Periods Occupied	Ave. No. Periods Student-Stations Used	Percentage of Possible** Utilization
B-80 (Lodge)	2	36.0	18.0	40.9	76	729	9.6	21.8
Social Welfare	3	105.0	35.0	79.5	145	3270	22.6	51.3
———	—	———	———	———	———	———	———	———
TOTAL	5	141.0	28.2	64.1	221	3999	18.1	41.1

*These data are not included in the main body of the report.

**Based on a 44-hour week.

APPENDIX E

ENROLLMENT FOR COURSES
IN WHICH
NO REGULARLY SCHEDULED CLASS MEETINGS ARE HELD

Course Number	Course Title	Sem. Hours	Enroll-Ment
Aty 591A	Directed Individual Study	3	1
Aty 599	Thesis	6	1
Art 591B-C-D-E	Directed Individual Study	3-3-3-3	12
Art 599	Thesis	6	1
Bcy 599	Thesis	3	1
Bty 509	Morphology of Gymnosperms and Angiosperms	3	3
Bty 555-6	Special Research Problems	3-4	3
Bty 599	Thesis	3	1
Bty 699	Dissertation	0	4
Bly 591A-B-C-D	Directed Individual Study	3-3-3-3	8
B En 599	Thesis	6	2
Cy 551-2-3-4	Chemical Research	3-3-3-3	23
Cy 557	Glassblowing	1	3
Cy 563	Quantum Chemistry	3	3
Cy 591A-B-C-D	Directed Individual Study	3-3-3-3	10
Cy 599	Thesis	6	6
Cy 605	Topics in Physical Biochemistry (DIS)	3	12
Cy 699	Dissertation	0	14
C & T	Dissertation	0	1
En AS 505A-B-C	Internship in School Administration	3-3-3	3

Course Number	Course Title	Sem. Hours	Enroll-ment
En AS 560	Administration and Curriculum for School Psychologists	2	3
En CU 505-1-2	Internship in Junior College	3	6
En EC 305	Work Experience with Exceptional Children in Residential Program	1	2
En G 505A	General Practicum in Guidance	3	5
En G 505B	Guidance Laboratory Practicum	3	3
En IS 599	Thesis	6	1
En IS 699	Dissertation	0	16
En R 504B	Statistics for Educational Research	3	4
V En 400A	Internship in the Vocational School	6	1
V En 477	Applied Skill and Technical Information in an Occupation	6	2
V En 478	Applied Skill and Technical Information in an Occupation	6	1
Eg S 401	Research and Design	3	2
Eg S 421	Introduction to Engineering Electronics	4	2
Eh 591A-C	Directed Individual Study	3-3	3
Eh 599	Thesis	6	8
Eh 699	Dissertation	0	4
Fh 599	Thesis	3	2
Fin 585	Seminar in Finance	3	9
Fin 599	Thesis	6	1
FN 591A	Directed Individual Study	3	1
FN 699	Dissertation	0	1
Ggy 591A	Directed Individual Study	3	1

Course Number	Course Title	Sem. Hours	Enroll-ment
Ggy 599	Thesis	3	1
Gly 591A-B-D	Directed Individual Study	3-3-3	3
Gly 599	Thesis	6	4
H En 491	Directed Individual Study	3	2
H En 591	Directed Individual Study	2	1
Hy 515E-F	The New South	3	9
Hy 561	Medieval Institutions and Ideas	3	3
Hy 564	European Diplomatic Relations Since 1920	3	9
Hy 591A-D	Directed Individual Study	3-3	5
Hy 595	Historical Methods	3	10
Hy 599	Thesis	3	6
Hy 699	Dissertation	0	2
HE En 485	Intern Teaching	10	15
H FL	Dissertation	0	1
H FL 591-C	Directed Individual Study	3	1
HRM 507	Food Service Layout and Physical Plant Maintenance	3	2
HRM 510	Hotel and Motel Operation	3	2
HRM 591-B	Directed Individual Study	3	1
Hs 491-2-3-4	Directed Individual Study	3-3-3-3	27
Hs 699	Dissertation	0	2
IRE	Thesis	3	1
LS 597	Study	4	1
LS 599	Thesis	2	2

Course Number	Course Title	Sem. Hours	Enrollment
Mgt 599	Thesis	4½	2
Mgt 525	Executive Control	3	8
Mgt 555	Evolution of Management Thought	3	12
Mkg 598	Study	3	12
Mkg 599	Thesis	6	3
My 591A	Directed Individual Study	3	2
My 699	Dissertation	0	1
Msc 161-2	Applied Music	2-2	179
Msc 181-2	Applied Music	4-4	15
Msc 205-1-2	Class Piano	1-1	14
Msc 261-2	Applied Music	2-2	96
Msc 281	Applied Music	4-4	5
Msc 355-1	Ensemble	2	15
Msc 356	Ensemble (Duo Piano)	2	1
Msc 361-2	Applied Music	2-2	51
Msc 381-2	Applied Music	5-5	13
Msc 438	Advanced Orchestral and Band Methods	2	1
Msc 461-2	Applied Music	2-2	32
Msc 471	Composition	3	5
Msc 481	Applied Music	5-5	10
Msc 505-1	Notation of Polyphonic Music	2	16
Msc 555	Ensemble	2-1	7
Msc 561-2	Applied Music Literature	2-2	17
Msc 581-2	Applied Music Literature	4-4	14

Course Number	Course Title	Sem. Hours	Enrollment
Msc 586	Seminar (Composition)	2-2	3
Msc 591A-B-C	Directed Individual Study	3-3-3	12
Msc 596A-B	Recital	2-2	12
Msc 599	Thesis	2-0-2	3
Msc 682-3	Piano Literature	6	3
Msc 691A-B-C-D	Directed Individual Study	3-3-3-3	13
Msc 699	Dissertation	0	17
Nsg 304	Patient Care Services	3	29
Nsg 400	Practice Teaching in Nursing	3	11
Nsg 416	Tuberculosis Nursing	3	32
Nsg 429	Current Development and Trends in Clinical Practice	3	3
Psy 591B	Directed Individual Study	3	1
Psy 599	Thesis	$4\frac{1}{2}$	2
PE 591A	Directed Individual Study	2	1
PE 599	Thesis	4	3
PE 699	Dissertation	0	3
Ps 591A-B-C	Directed Individual Study	3-3-3	4
Ps 599	Thesis	3	5
Ps 605-6	Research	3-3	8
Ps 699	Dissertation	0	2
Py 501	Seminar in Psychobiology	2	4
Py 551-2-4	Research	0-1-5	3
Py 577	Physiology of Sensory Receptors	4	3

Course Number	Course Title	Sem. Hours	Enrollment
Py 699	Dissertation	0	2
Pcl 591B	Directed Individual Study	3	1
Pcl 599	Thesis	3	2
Psy 516	Practicum	1	3
Psy 519	Human Development Clinic	3	6
Psy 591A-B	Directed Individual Study	3-3	2
Psy 597	Study	3	1
Psy 599	Thesis	6	5
Psy 699	Dissertation	0	15
P Ad 401	Internship	5	1
P Ad 402	Internship	5	3
P Ad 491-492M	Individual Instruction for Internship	3-1	3
P Ad 599	Thesis	6	1
Rec 405	Internship in Recreation	10	2
Rec 460B-C-D	Field Work in Recreation	1-1-1	9
Rec 591A	Directed Individual Study	3	1
Rec 599	Thesis	6	1
S Se 491	Directed Individual Study	3	9
S Se 499A	Honors	3	1
SW 471	Field Observation	1	7
SW 472	Field Observation	1	1
SW 515A	Field Work I	3	67
SW 517A	Field Work II	12	41
SW 523	Field Practice in Social Work	5	1

Course Number	Course Title	Sem. Hours	Enrollment
SW 557	Social Work Research	3	1
SW 570	Reading in Marriage	3	3
SW 571	Principles of Marriage Counseling	3	8
SW 573	Marriage Counseling Practicum	3	1
SW 574	Marriage Counseling Practicum	3	1
SW 591A	Directed Individual Study	3	2
SW 599	Thesis	3	3
SW 699	Dissertation	0	1
Ch D 591	Directed Individual Study	3	5
Sy 699	Dissertation	0	2
Sh 591C	Directed Individual Study	3	1
Sh 599	Thesis	3	2
Sh 699	Dissertation	0	2
Sch 126	Voice and Articulation Improvement Laboratory	0	4
Sch 591A	Directed Individual Study	3	1
Sch 599	Thesis	2	1
Sch 545	Educational and Community Theatre	3	6
Zy 599	Thesis	6	3
Zy 699	Dissertation	0	7

APPENDIX F

SUMMARY OF FORMER CLASSROOMS NOW ASSIGNED TO OTHER USES

BUILDING	ROOM NUMBER	CURRENT USE
Building A	310	Listening Lab
	312	Listening Lab
Business	310	Office
	313	Office
	314	Office
	315	Office
	316	Office
Conradi	107	Research Lab
Education	221	Office
	403	Office
Geology	102	Office
	204	X-Ray Room
History	101	Research Lab
	102	Research Lab
	109	Research Lab
	301	Research Lab
	303	Research Lab
Journalism	107	Duplicating Dept.
	108	Duplicating Dept.
	204	Duplicating Dept.
	Ja1	Duplicating Dept.
	Ja5	Duplicating Dept.
Library	22	Research Lab
	29	Research Lab
Psychology	323	Research Lab
ROTC	112	Maintenance Dept.
	221	Maintenance Dept.
	222	Maintenance Dept.
Science	310	Research Lab

APPENDIX G

INADEQUACIES OF THIS SPACE UTILIZATION STUDY

In the conduct of this study certain difficulties and problems have been encountered which militate against the highest degree of accuracy. The findings in this report must therefore be considered as approximations. It is believed, however, that the data here presented reflect conditions very close to the true situation.

Among the difficulties and problems encountered during the study are the following:

1. In a few instances there were inconsistencies between preliminary data at the top of the Record of Use of Individual Instructional Rooms form and data in the main body of the table. In several cases these differences were resolved satisfactorily; in some cases arbitrary decisions were made in terms of the best judgments of individuals working on the study.

2. The study took no account of the extent to which a given room was used beyond scheduled use. Yet it was known in many instances that the room served additional uses. For example, a given room might serve as a seminar room for several hours per week and then be heavily used during the rest of the week as a reading room, conference room, or general work room. In this study no consideration was given to use beyond scheduled classroom use.

3. There was no ready way of knowing whether the number of student stations indicated for a given room was at normal capacity, above normal capacity, or below normal capacity. The figure indicated was simply taken at the face value indicated by the Office of the Registrar.

4. Once the analysis of utilization of permanent instructional space had been made there were no adequate standards or definitive data resulting from similar studies elsewhere with which to make comparisons. Only fragmentary data were available with which to make comparisons. As a result, interpretative appraisals were subject to errors of judgment.